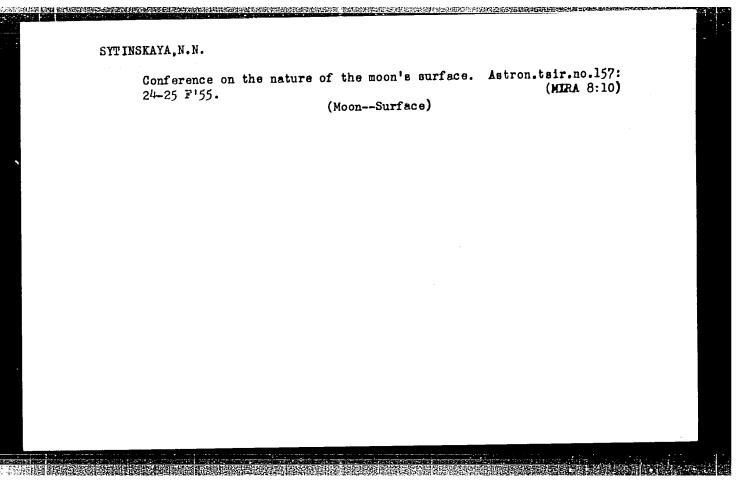


SYTINSKAYA, N.N., doktor fisiko-matematicheskikh nauk, professor.

Earth's shadow. Nauka i zhizn' 22 no.1:30-32;45 Ja'55.

(Earth) (Moon) (MIRA 8:2)



SYTINSKAYA, N.N.

Preliminary results of integral photometry of the solar corons of June 30, 1954. Astron.tsir. no.161:8-9 J1'55. (MLRA 8:12)

1. Gosudarstvennyy Yestestvenno-Nauchnyy Institut imeni P.F.Les-gafta

(Photometry, Astronomical) (Sun--Corona)

SYTINSKAYA, N.N.; SHARONOV, V.V., otvetstvennyy redaktor; IMSHENETSKIY, Yu.K., redaktor izdatel'stva; ZENDEL', M.Ye., tekhnicheskiy redaktor

[Instructions for observations of the moon and lunar eclipses; with a supplement of special instructions for the observation of lunar eclipses, formulated by the Committee on Planetary Physics of the Astronomical Council of the Academy of Sciences of the U.S.S.R.] Instruktsiia dlia nabliudenii Luny i lunnykh zatmenii; s prilozheniem spetsial'nykh instruktsii po nabliudeniiu lunnykh zatmenii, razrabotannykh Komissiei po fizike planet Astronomicheskogo soveta AN SSSR. Sost. N.N.Sytinskaia. Moskva, Izd-vo Akademii nauk SSSR, 1956. 29 p. (MIRA 9:7)

 Vsesoyuznoye astronomo-geodezicheskoye obshchestvo. (Moon--Observations)

SYTINSKAYA, Nadezhda Nikolayevna; RAKHLIN, I.Ye., redaktor; MURASHOVA, N.Ya., tekhnicheskiy redaktor

[The opposition of Mars at perihelion] Velikoe protivostoianie Marsa. Moskva, Gos. izd-vo tekhniko-teoret. lit-ry, 1956. 49 p. (MLRA 9:11) (Mars (Planet)--Opposition, 1956)

SYTINSKAYA, Nadezhda Nikolayevna, professor; DVUKHSHERSTOV, G.I., redaktor; ZORINA, Ya.A., redaktor; GARNEK, V.P., tekhuicheskiy redaktor

[Modern science on the origin of the solar system] Sovremennaia nauka o proiskhozhenii solnechnoi sistemy. Moskva, Izd-vo Akademii pedagog. nauk RSFSR, 1956. 93 p. (MIRA 9:8) (Solar system)

SYTINSKAYA, Nadezhda Nikelayevna; SAMSONENKO, L.V., redakter; MURASHOVA, N.Ia, tekhnicheskiy redaktor.

以上,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一个人的,我们就是一

[Moon and its observation] Luna i ce nabliudenie. Meskva, Ges. izd-vo tekhnike-teoret. lit-ry, 1956. 253 p. (MLRA 9:6) (Moon)

SYTINSKAYA, N.N., professor.

Present-day studies of the atmosphere and surface of Mars, Priroda (MLRA 9:8)
45 no.6:33-41 Je '56.
(Mars (Planet))

Relation of polari Astron.tsirk. no.1	zation and albedo for lunar surface features. 68:18 '56. (MLRA 9:8)
l. Gosudarstvennyy Lesgafta.	estestvenno-nauchnyy institut imeni P.F. (MoonSurface)

SYTINSKAYA, N.N.

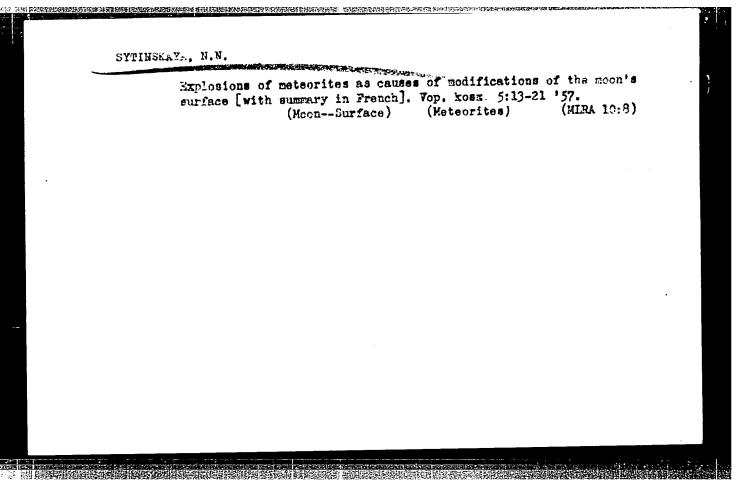
Absolute surface photometry and colorimetry of the solar corona of June 30, 1954. Astron.tsirk. no.170:5-7 '56. (MIRA 9:10)

1.Gosudarstvennyy Yestestvenno-nauchnyy institut imeni P.F.Lesgafta. (Sun-Corona)

BRONSHTAN, Vitaliy Aleksandrovich; SYTINSKAYA, N.N., prof. red.; SAMSONENKO, L.V., red.; BRUDNO, K.F., tekhn.red.

[Planets and their observation] Planety i ikh nabliudenie. Pod red. N.N. Sytinskoi. Moskva, Gos.izd-vo tekhniko-teoret. lit-ry. 1957 206 p. (MIRA 11:2)

(Planets)



SYTINSKAYA, N.N.

New value of the light constant of the moon [with summary in English].

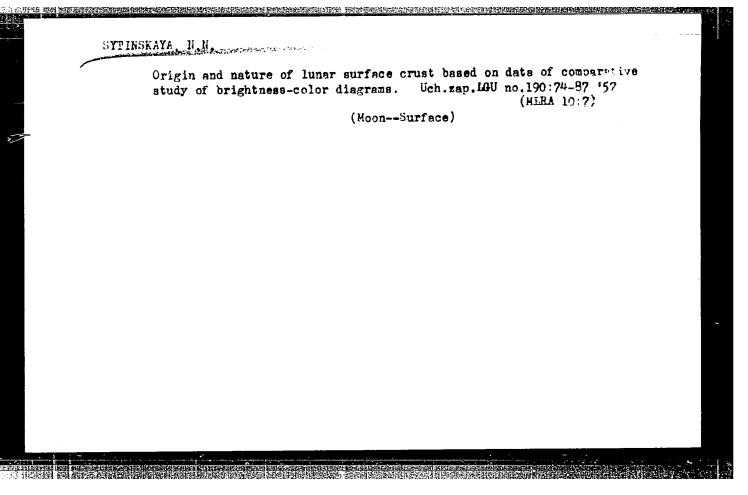
Astron. zhur. 34 no.6:899-902 N-D '57. (MIRA 11:2)

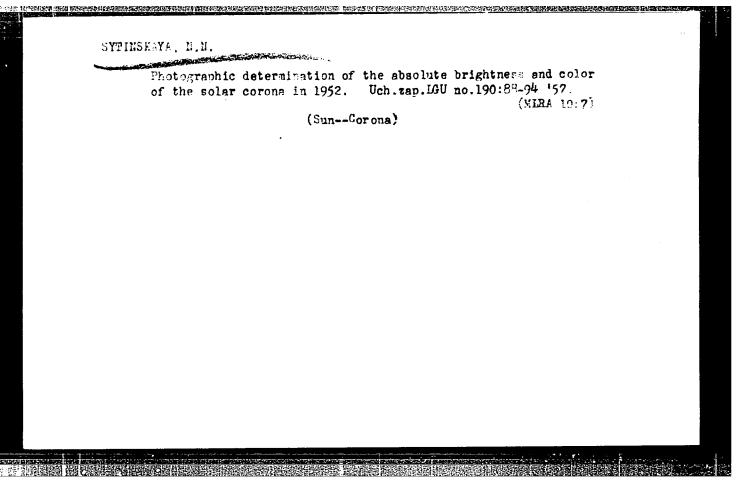
1. Yestestvenno-nauchnyy institut im. P.F. Lesgafta. (Moon--Observations)

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Nature of yellow turbidities on Mars. Astron. tsir. no.177:4-5 P '57.
(MIRA 10:6)

1. Gosudarstvennyy Yestestvenno-nauchnyy Institut im. P.F. Legafta. (Mars (Planet))





SYTINSKAYA, N. N.

"Distribution of Brightness and Color in the Solar Corona of June 30, 1954"

(Total Eclipse of the Sun, February 25, 1952 and June 30, 1954, Transactions of the Expedition to Observe Solar Eclipses) Moscow, Izd-vo AN SSSR, 1958. 357 p.

SYTTUSKAYA, II. II.

"Photographic Evaluation of the Total Brightness and Color of the Solar Corona of 1954 in Yeysk"

(Total Eclipse of the Sun, February 25, 1952 and June 30, 1954, Transactions of the Expedition to Observe Solar Eclipses) Moscow, Izd-vo AN SSSR, 1956. 357 p.

SYTINSKAYA, N. N.

"The Development and the Confirmation of the Hypotheses Concerning the Nature of the Surface Layers of the Moon." paper read by V. V. SHARONOV

公司在西班通· BERKETANDE 以出版的文化。——"我们的社会对话是对话的人的法则是是这种的人的,我们就是这种的人。" "这个是是这个人,我们也不是不是一个

Report presented at the Plenary Maeting of the Committee of Planetary Physics, Council of Astronomers, Khar'kov, 20-22 May 1958. (Vest. Ak Nauk SSSR, 1958, No. 8, p. 113-114)

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PHASE I BOOK EXPLOITATION

sov/3303

Sytinskaya, Nadezhda Nikolayevna

Priroda luny (Physical Environment of The Moon) Moscow, Fizmatgiz, 1959. 175 p. 20,000 copies printed.

Ed.: I. Ye. Rakhlin; Tech. Ed.: Ye. A. Yermakova.

PURPOSE: This booklet is intended for the general reader interested in the natural conditions on and surrounding the Moon.

COVERAGE: The author defines the field of selenology and proceeds to a scientific description of the natural conditions on the Moon. Lunar rotation, revolution, phases, and libration are described. The size, mass, and density of the Moon are discussed as well as lunar topography. Lunar eclipses and the influence of well as lunar topography. the Earth's atmosphere on the appearance of an eclipse are explained. The elevation of mountains on the Moon is indicated and the history of lunar formations reviewed along with the physical aspects of the lunar surface, its coloration, and luminescence. The Appendix contains a listing of lunar landforms

Card 1/4

Physical Environment (Cont.)  Ch. III. Topography of the Mocn  11. The dark shadows of lunar seas  12. Mountain ridges, peaks, and rolls  13. Ringlike mountains  14. Trenches, clefts, rays, and halos  15. Elevation of lunar mountains  16. Maps and atlases of the lunar surface  17. History of the lunar Surface  18. Whiteness of the Moon  19. Photometry of various sections of the Moon  20. Reflection of light from the lunar surface and its  distinctive features  21. Coloration of lunar landscapes  22. Coloration of lunar landscapes  23. Luminescence of the lunar surface  24. Temperature of the lunar surface  Card 3/4  Card 3/4	。 《大学》 1914年 1919年 1919年 1914年 1914	
Ch. III. Topography of the Moon  11. The dark shadows of lunar seas  12. Mountain ridges, peaks, and rolls  13. Ringlike mountains  14. Trenches, clefts, rays, and halos  15. Elevation of lunar mountains  16. Maps and atlases of the lunar surface  17. History of the lunar Surface  18. Whiteness of the Moon  19. Photometry of various sections of the Moon  19. Reflection of light from the lunar surface and its  20. Reflection of light from the lunar surface and its  21. Coloration of lunar landscapes  22. Polarization of lunar light  23. Luminescence of the lunar surface  24. Temperature of the lunar surface  25. Problem of the Moon's atmosphere	sov/3303	
	Ch. III. Topography of the Moon  11. The dark shadows of lunar seas  12. Mountain ridges, peaks, and rolls  13. Ringlike mountains  14. Trenches, clefts, rays, and halos  15. Elevation of lunar mountains  16. Maps and atlases of the lunar surface  17. History of the lunar Surface  Ch. IV. Physics of the Lunar Surface  18. Whiteness of the Moon  19. Photometry of various sections of the Moon  19. Reflection of light from the lunar surface and its distinctive features  20. Reflection of lunar landscapes  21. Coloration of lunar light  23. Luminescence of the lunar surface  24. Temperature of the lunar surface  25. Problem of the Moon's atmosphere	70 75 82 90 95 100 104 117 117 123 128 137 141 146 150

s/269/63/000/002/025/037 A001/A101

AUTHOR:

Sytinskaya, N. N.

TITLE:

On the photometric study of optical properties of the Martian

atmosphere

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 2, 1963, 62 - 63, abstract 2.51.500 (In collection: "Rezul'taty nablyudeniy Marsa vo vremya velikogo protivostoyaniya 1956 g. v SSSR", M., AN SSSR, 1959,

114 - 122)

Optical parameters of the atmosphere of the planet are listed which TEXT: can be obtained from observations: optical depth au, its change with wavelength, the role of true absorption in the phenomenon of extinction, indicatrix of scattering. Two types of regions are observed in the Martian atmosphere: transparent (with small au) and cloudy-nebulous, where au is considerable, which calls for employing different methods of investigation. The present article treats the problem of regions with transparent atmosphere, for which is should be possible to separate the brightness components created by scattering in the atmosphere and reflection from the surface. It is pointed out that the single-

Card 1/2

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On the photometric study of ...

valued solution of this problem on the basis of photometric data only is impossible, since the number of unknowns is too great (in addition to parameters of the atmosphere there are also photometric characteristics of the surface). Therefore the practical application of photometry to study of an atmosphere always includes some system of hypotheses on the nature of which depends the reliability of the results obtained. In particular, the scattering indicatrix should be assumed. The author describes the method of interpreting absolute photometric measurements of the Martian disk at the instant of opposition, whose results are expressed in the form of brightness factor or visible albedo. It is assumed that  $\tau$  is constant either in time or along the radius of the disk, and the law of reflection from the surface is expressed by the factor of smoothness q. The brightness of an atmospheric layer is described by an empirical formula whose numerical parameters are determined on the basis of one of the light scattering theories. Then the problem is reduced to the solution of a system of transcendental equations, whose unknowns are  $\tau$ , q and albedo of the surface r; each equation corresponds to definite value of angular distance of the region from the center of the disk. The method of solving such a system is described in detail. Reality of the obtained characteristics of the Martian atmosphere and surface is considered. There are 14 references. I. Lebedeva · [Abstracter's note: Complete translation]

Card 2/2

s/269/63/000/002/028/037

AUTHOR:

Sytinskaya, N. N.

TITLE:

Some considerations on the state of the atmosphere of Mars

PERIODICAL: Referativnyy zhurnal, Astronomiya, no. 2, 1963, 63 - 64, abstract 2.51.503 (In collection: "Rezul'taty nablyudeniy Marsa vo vremya velikogo protivostoyaniya 1956 g. v SSSR", M., AN SSSR, 1959,

166 - 171)

The author studies the problem of yellow-colored fogs widely spread TEXT: on Mars during the opposition of 1956. It is noted that the regions affected by fogs single out against the background of seas, but blend with the background of continents. Based on this, and taking into consideration characteristics obtained for transparent regions of the atmosphere, the author calculates the dependence of the contrast of seas on the optical depth of fog layers. Applied to Mars observations this leads to a conclusion that the transparency coefficient of the Martian atmosphere decreased 3 times during days with high turbidity, and optical depth increased by one unity. Discussing the nature of

Card 1/2

Some considerations on the state of ...

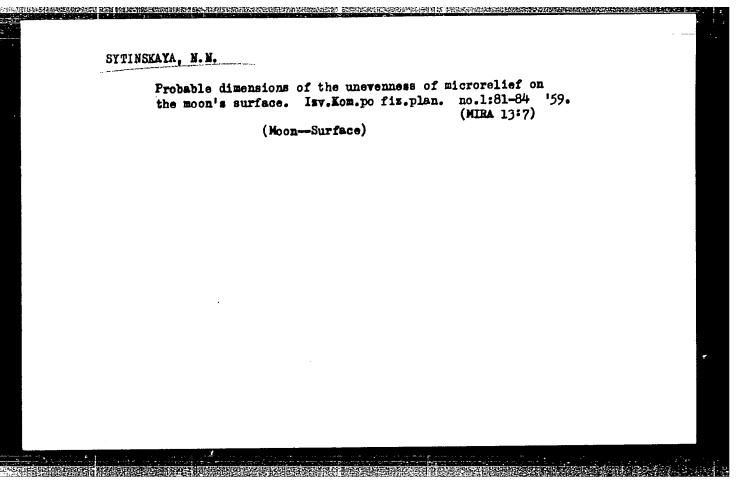
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yellow turbidity the author shares the opinion that aerosol was formed by mineral particles suspended in the atmosphere from the surface. This material can not be sand, since it was kept suspended for a long time. It is natural to suppose that fine fractions of particles of the slit and pelite nature produced the fog. The fog color corresponds to ocherous varieties of limonite that confirms the hypothesis according to which Martian continents are covered with limonite dust. There are 17 references.

I. Lebedeva

[Abstracter's note: Complete translation]

Card 2/2



SYTINSKAYA, N.N. (Leningrad)

Photometry of noctilucent clouds by an amateur astronomer.

Biul.VAGO no.24:28-36 '59. (MIRA 13:4)

(Clouds) (Photometry, Astronomical)

10

3(1) .AUTHOR:

Sytinskaya, N.N.

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SOV/33-36-2-14/27

TITLE:

New Data on the Meteor - Slag Theory of the Formation of the Outer Layer of the Lunar Surface

PERIODICAL:

Astronomicheskiy ahurnal, Vol 36, Nr 2, pp 315-321 (USSR) i919

ABSTRACT:

The author concludes from photometric, colorimetric and polarimetric investigations of the moon that the visible part of its surface consists of strongly porous striated material of a structure like volcanic slag. This material is formed from the rocks of the lunar crust by the impacts of meteoric bodies. This so-called meteor-slag theory will be confirmed by the new facts presented by the author: Recent determinations of the density of the lunar atmosphere give extremely small values, so that even micrometeorites will meet the lunar surface with cosmic velocities. And rocket measurings give a frequency of one impact per cm<sup>2</sup> per sec. Finally, some details on the probable structure of the surface material are discussed. The author mentions F.F. Petrushevskiy, N.S. Orlova, V.P. Dzhapiashvili, K.P. Stanyukovich, V.V. Fedynskiy and I.A. Yudin.

Card 1/2

New Data on the Meteor - Slag Theory of the Formation SOV/33-36-2-14/27 of the Outer Layer of the Lunar Surface

。 《表现中国的社会》(1982年),1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年,1982年

There are 1 table, and 18 references, 12 of which are Soviet, 3 American, 1 English, 1 Irish, and 1 French.

ASSOCIATION: Glavnaya astronomicheskaya observatoriya Akademii nauk SSSR (Main Astronomical Observatory of the AS USSR)

SUBMITTED: June 18, 1958

Card 2/2

#### SYTINSKAYA, N. N.

"The Meteorite-Slag Theory Of The Lunar Surface".

paper presented at IAU Symposium on the Moon, Leningrad, USSR, 6-8 Dec 60.

The visible outer layer of the lunar surface is the result of the alteration of the initial lunar rocks by external factors, the most active being meteorite and micrometeorite impacts. The impact of a meteorite of any size is accompanied by an explosion during which some of the material of the lunar surface evaporates and then subsides, forming exceedingly porous material similar to volcanic slag. The low thermal conductivity in vacuum and the scattering diagram of volcanic slag is in good accordance with observations made for the lunar surface. The comparison of reflection laws in the optical and radio diapasons shows that the unevenness is more probably of the order of millimeters. The dark coloring of the surface is explained by the presence of dark iron oxides, which were formed by the decomposition of silicates containing iron.

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					mation of thiness and	atmosphers	Problem of the Moon's Atmosphere (M.S. Sytinskaya) Thorottical consideration	Description of the Surface of the Moon graphy	and photos	The votes for a number maps    Continue   Continue   Continue	nar Cartor	Utilising lumar observations for geodetic purposes Possible utilisation of lumar observations for interplanetary marigation Lorraphy	raybical Ligration of the Determination of the Processing the chi	Optical litration of the Moon Determing the coordinates of lunar surface features from observation Coffections for the relief of the Moon's limb	Hotion, Rotal Certain data ( History of to	es and 32 teb and 2 French.	tmosphere, l commic for tions of lu	TRIMEN: The book, written by il Sowiet authorities, summarises and evaluates research done to date in selection lost in the motion, rotation, and figure of the known, physical properties of the lumar surface, the question of the existence	POSE: This book is intended for estronosers, estrophysicists, and other soisn- tific and technical personnel interested in humar research.		and A.A.	: !			1:	
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Sytinskaya, N. N.

AUTHOR: TITLE:

Photometric and colorimetric comparison of some porous and compact

rocks of volcanic origin with the lunar surface

医细胞 医皮肤色谱性结膜结合 经公司 经实际的经济系统 经实际的过去式和过去分词 经过的证据

PERIODICAL:

Referativnyy zhurnal, Astronomiya i Geodeziya, no. 7, 1962, 73, abstract 7A521 ("Izv. Komis. po fiz. planet", 1960, no. 2, 59 - 64)

TEXT: Various volcanic rocks (pumice, slag, volcanic tuffs) were compared with formations of the lunar surface as to the color and lightness. The following conclusions have been drawn: 1) Volcanic slag turned out to be the darkest rock whose average value of lightness r=0.060. 2) The average result for slag is siwhose average value of lightness r=0.060. 3) The average result for the fused crust of milar to that obtained earlier (RZhAstr, 1956, no. 7, 4217) for the fused crust of meteorites (r=0.052; yellowness index D=+0.11). 3) The average values of parameters for all rocks of basic composition (diabase, basalt, gabbro, etc.) were equal to r=0.141; D=-0.04. 4) For ultra-basic rocks it was obtained on the average: r=0.104, D=-0.006. 5) The lightness comparison warrants the conclusion that lunar continents are covered with ultra-basic rocks, while the seas by volcanic slag. However, there is no sufficient similarity in color. 6) Pumice shows no similarity

with the Moon in albedo. 7) Volcanic tuffs contain specimens of very diverse color-Card 1/2

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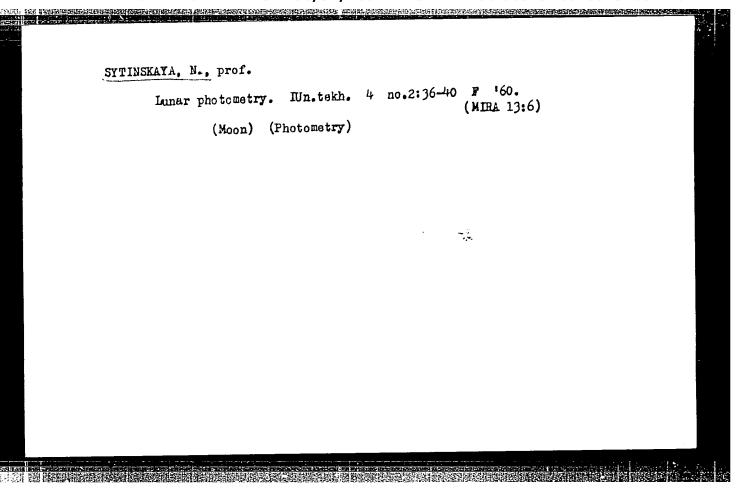
Photometric and colorimetric comparison of ...

from black to light-grey and from bluish to bright-red. 8) It is desirable to extend the investigation to uncemented pyroclastic rocks (volcanic ashes, sand, lapilli, bombs). There are 8 references.

I. R.

[Abstracter's note: Complete translation]

Card 2/2



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AUTHOR:

Sytinská, N.

TITLE:

What Awaits Man on the Moon

PERIODICAL:

Křidla vlasti, 1960, No. 8, pp. 6-7

TEXT: In connection with the successful launching of a Soviet rocket to the moon on March 14, 1959, the author presents a review of the current views concerning the conditions on the moon. A previous hypothesis that there is a rarefied atmosphere of gases on the moon has not been proven. However, in the night from October 2 to 3, 1958, Soviet Astronomer N.A. Kozyrov observed through a powerful telescope of the Crimean Observatory a short flash in the Alphonso Crater, apparently a cloud of gas which became luminiscent following a volcanic explosion. This is an indication that gases occasionally occur on the moon. The surface of the moon has also been well explored. With the aid of powerful radars it has been established that the moon surface is covered by pits and blisters, whose size ranges from a few millimeters to several centimeters. This is attributed to the effects of meteorite impacts. Soviet Scientists K.P. Stanyukovich and V.V. Fedynskiy proved by calculations that the energy released

Card 1/2

83434

Z/003/60/000/008/001/003 A203/A026

What Awaits Man on the Moon

during a meteorite impact on the moon is great enough not only to vaporize the meteorite itself, but also part of the moon rock. Meteorites and lack of atmosphere will, therefore, constitute the greatest obstacles to man if and when he lands on the moon. There are 2 photographs.

W

Card 2/2

SYTINSKAYA, Nadezhda Nikolayevna; KULIKOV, G.S., red.; YERMAKOVA, Ye.A.,
tekhn. red.

[Planet Mars] Planeta Mars. Moskva, Gos. izd-vo fizikomatem. lit-ry, 1962. 61 p. (Populiarnye lektsii po astronomii,
no.12)

(Mars (Planet))

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ASTAPOVICH, I.S.; BAKULII ,P.I.; BAKHAREV, A.M.; HRONSHTEN, V.A.; BUGOSLAVSKAYA, N.Ya.[deceased]; VASIL'YEV, O.B.; GRISHIN, N.I.; DAGAYEV, M.M.; DUBROVSKIY, K.K.[deceased]; ZAKHALOV, G.P.; ZOTKIN, I.T.; KRAHER, Ye.N.; KRII OV, Ye.L.; KULIKOVSKIY, P.G.; KUNITSKIY, R.V.; KUROCHKII, H.Ye.; ORLOV, S.V.[deceased]; POFOV, P.I.; PUSHKOV, N.V.; RYBAKOV, A.I.; RYABOV, Yu.A.; SYTINSKAYA, N.N.; TSESEVICH, V.P.; SHCHIGOLEV, B.M.; VORONTSOV—VELTYAMINOV, B.A., red.; POTOMAREVA, G.A., red.; KRYUCHKOVA, V.N., tekhn. red.

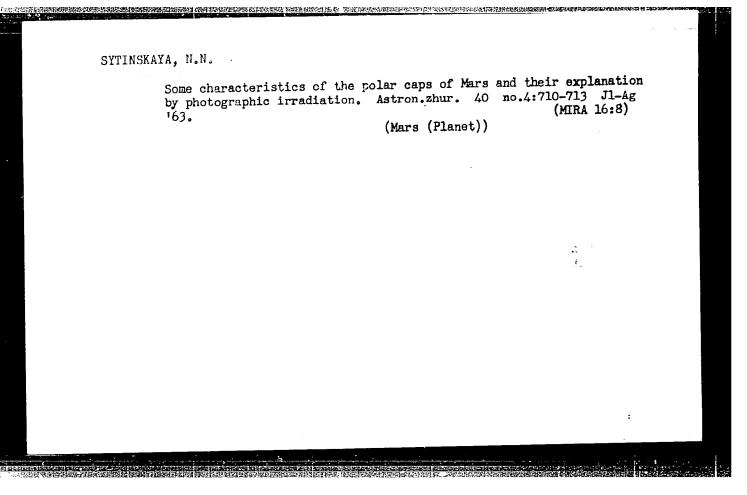
[Astronomical calender; permanent part] Astronomicheskii kalendar; postoiannaia chast'. Izd.5., polnost'iu perer. Otv. red. P.I.Bakulin. Red.kol.V.A.Brenshten i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1962. 771 p. (MIRA 15:4)

(Astronomy-Yearbooks)

SYTINSKAYA, N. N.

"Lunar microrelief."

Report to be submitted for the Symposium on Geological Problems in Lunar Research, N.Y. Acad. of Sciences, New York, 16-19 May 1964.



SYTINSKAYA, N.N.

Albedo of separate features of the moon's surface. Astron. zhur.
40 no.6:1083-1084, N-D '63.

(MIRA 16:12)

L 36313-65 EWT(1)/EWG(v)/EEC(t) Pe-5/Pag-2 GW ACCESSION NR: AP5006008 S/0033/65/042/001/0129/0135

28

AUTHOR: Sytinskaya, N. N.

TITLE: Experience in the colorimetric comparison of asteroids and terrestrial

rocks

SOURCE: Astronomicheskiy zhurnal, v. 42, no. 1, 1965, 129-135

TOPIC TAGS: colorimetry, astrophysics, asteroid, terrestrial rock, sun, color index, meteorite, moon, yellowness index

ABSTRACT: A catalog has been compiled of the yellowness index D (the difference between the color index of an asteroid and the sun) for 69 asteroids on the basis of data of various authors. The values obtained fall in the range -0.08 - +0.40, with a mean of +0.178. The distribution curve of the asteroids according to D is approximately symmetrical and has a sharp maximum at D = 0.17. Similar curves and the mean D values are determined for terrestrial materials, the previously published D values being converted to the B - V system. It was found that there is no similarity between the curve for the asteroids and the curves for limestones, sandstones, granites, metamorphic rocks or for volcanic tuffs and slags because these

Card1/3

L 36313-65 ACCESSION NR: AP5006008

a considerable color dispersion, and accordingly the curves extend far in the direction of large D values. Likewise, there is no adequate rocks similarity to basic and ultrabasic rocks. These rocks are characterized by a small color dispersion, but in comparison with the curve for the asteroids, the corresponding curves are displaced greatly in the direction of a neutral color. The curves for pumice, meteorites, the molten crust of meteorites, and details of the lunar surface show a similarity in curve width (small color dispersion) and at the same time differ in the position of the maximum by not more than D=0.1. Interpretation of the results requires at least approximate data on the brightness of the surface of asteroids, but it is impossible to determine the necessary asteroid albedo values except in four cases (K. Stumpff, Astron. Nachr., 276, 118, 1948). The mean spherical albedo in these four cases is 0.12, suggesting that the surface of asteroids in general is dark; their surfaces can therefore hardly consist of pumics or meteorites. The values of the phase coefficient for almost all the asteroids fall in the range 0.02-0.Q5 mag/degree, which is close to the values for the Moon (0.023) and Mercury (0.037). This suggests in turn that the photometric relief of all celestial bodies without an atmosphere is similar. On the basis of optical characteristics, the surface of the asteroids is closer to

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AUTHOR: Sy	tinskaya, N. N.			B+1
ORG: Astro	nomic Observatory of Vatoriya Leningradsko	the Leningrad State Uniogo gosudarstvennogo uni	versity ( Astronomi versiteta)	ches+, ii
TITLE: Aer	osol component of th	e Martian atmosphere		
SOURCE: Af 1 Marse (1 Venus and M	UkrSSR. Voprosy ast Problems in astrophys ars). Kiev, Izd-vo Na	rofiziki' issledovaniye ics; investigation of th ukova dumka, 1965, 79-81	atmosfer Venery le atmospheres of	
TOPIC TAGS	mars planet, plane	t atmosphere, aerosol,	photometry	
ABSTRACT:	The photometric study	y of the Martian atmosph the optical thickness ( istribution of brightness of other parameters of	ere was divided int  (7) of the atmosph	t disc.
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tmosphere with a sed, but did no n attempt was me sition by using extended indicate (60 mbar) were of the Raley atmospharkton consist plankton consist accured. Because the studying the	on the planet surpression according to the first consideration according to the King formularix of scattering much smaller than osphere. But every formula was derifuled of large particle there is no relate, the solution content of suspen	ding to haley a deration the aerosome parameters for $(T=A/\lambda + D)$ . The obtained volumes (85 mbar) in these values so wed with the assurable method yet probably can be inded particles phonomethods. The	The scheme of a pure law was convenied to sol component of the sol component of the grown data on the 93° during calculation alues of atmosphism obtained by us large mption that the atm seutral scattering for the separation cound in reversing to tometrically and a calculation should be calculated by the calculated	e atmosphere.  Mars opp- s with an c pressure the scheme han actual capheric (p) of light of gas and the problem: ding the values i that about
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UR/0269/66/000/:03/0073/0073 SOURCE CODE:

ACC NRI AR6020774

TITLE: Search for variable brightness contrasts on the lumar surface as a scientific AUTHOR: Sytinskaya, N. N.

working program for small observatories

SOURCE: Ref. zh. Astronomiya, Abs. 3.51.608

REF SOURCE: Byul. Vses. astron.-geod. o-va, no. 36, 1965, 38-43

TOPIC TAGS: lumar surface, lumar topography, lumar reflectivity

ABSTRACT: The variations in brightness contrast, which were detected on the lunar surface, depending on the phase, may have an important meaning in studying the structure of the surface layer of the Moon, because these variations can t; caused only by the different laws of light reflections from the components of the small areas causing this contrast. The constant character of the brightness cont asts on the Moon was ascertained only for the large objects which were sufficiently s udied by photometric methods. These data are not available for the large amount of smaller objects. The calculations made by the author for the two combinations of earth soils (baselt and volcanic slag, volcanic ashes and lapilli), showed that the changes of contrasts are sufficiently large (up to 0.6-0.7) so as to be easily detected by the eye. In Bearching on the lunar surface for small objects having contrast valations that can

1/2 Card

UDC: 523.34

SYTINSKAYA, O. N. Cand Biol Sci -- (diss) "Oxidizing phosphorylation in the liver in cases of pantothen and biotin insufficiency." Len, 1956. 9 pp 21 cm. (Acad Med Sci USSR. Inst of Experimental Medicine), 100 copies (KL, 14-57, 86)

-10-

是一种,我们也是一个人,我们也是一个人,我们们的一个人,我们也是一个人,我们也是一个人,我们就是一个人,我们就是我们的一个人,我们就是我们的一个人,我们就是我们

#### SYTINSKAYA, O.N.

Modified method for determining sulfanilamides adapted to studying the coenzyme A content and the acetylation capacity of tissues.

Vop.med.khim. 2 no.3:214-221 My-Je \*56. (MLRA 9:10)

1. Otdel biokhimii Instituta eksperimimental'noy meditsiny AMN

SSSR, Leningrad.

(SULFANILAMIDE, determination,

modified technic with determ. of coenzyme A & of acetylation capacity of tissues (Rus))

(COENZYMES,

A, determ. in detection of sulfanilamides (Rus))

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GOLOVIN, B.P.; SYTINSKAYA, O.N.

Steroid hormones and the activity of renal hexokinase. Vop.med.khim.
5 no.5:348-352 S-0 '59. (MIRA 13:2)

1. Institute of Experimental Medicine of the U.S.S.R. Academy of Medical Sciences, Leningrad.
(KINASES metab.)
(KINNEYS metab.)
(STEROIDS pharmacol.)

SYTINGK YA, J. M., DOKUSOVA, D. K. (USSR)

"Mexikinase Activity and Oxidative Phosphorylation in the Liver of Biotin-Deficient Chicks (Read by title)."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 August 1961

GOLOVIN, B.P.; SYTINSKAYA, O.N.

Influence of hormones on the hexokinase activity of subcellular renal structures in the rabbit. Vop. med. khim. 7 no.5:492-494 S-0 '61. (MIRA 14:10)

1. The Department of Biochemistry of the Institute of Experimental Medicine of the Academy of Medical Sciences of the U.S.S.R. (KIDNEYS) (HEXOKINASE) (HORMONES)

OCHAPOVSKIY, B.L.; RASPOPOV, O.M.; SYTINSKIY, A.D.

Vertical gradient of the force of gravity. Uch. sap. Len. un. no. 210;
114-133 '56.

(Gravity)

(Gravity)

Sytinski, A.D., mladshiy nauchnyy sotrudnik

Saismic observations at the Mirnyy Observatory. Inform.biul.
Sov.antark.eksp. no.1:79-80 '58. (MIRA 12:8)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.
(Antarctic regions—Seismometry)

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SYTINSKIY, A.D., mladshiy nauchnyy sotrudnik

Map of the distribution of earthquake epicenters based on observations made at the Mirnyy Observatory. Inform. biul. Sov. antark. eksp. no.7:31-33 '59. (MIRA 13:3)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel skiy institut. (Antarctic regions--Earthquakes--Maps)

ACCESSION NR: AT4041518

8/2732/59/002/000/0153/0156

AUTHOR: Sy\*tinskiy, A.D.

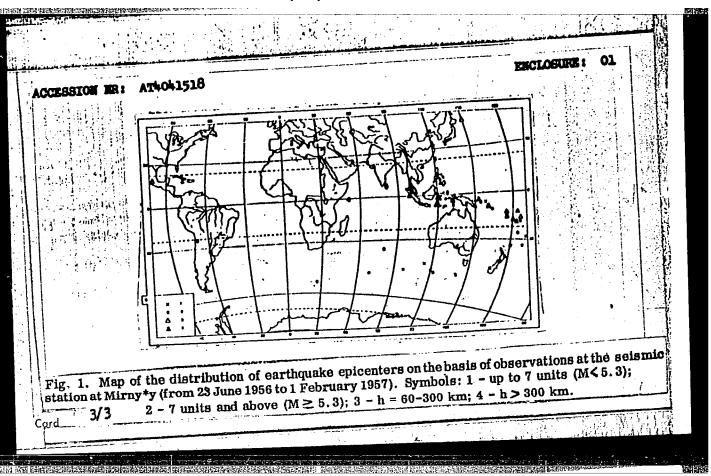
TITLE: Seismic observations at Mirny\*y

SOURCE: Sovetskaya antarkticheskaya ekspeditsiya, 1955-1958. Pervaya kontinental'naya ekspeditsiya, 1955-1957 gg.; nauchny\*ye rezul'taty\* (First continental expedition; scientific results). Trudy\* ekspeditsii, v. 2. Leningrad, Izd-vo "Morskoy transport," 1959, 153-156

TOPIC TAGS: seismicity, seismic activity, seismology, seismic station, microseism, geophysics

ABSTRACT: The seismic station at Mirny\*y in Antarctica is located on a rock outcrop at an elevation of 17 m above sea level, remote from sources of man-induced interference; the instruments are in a depression in a granitic intrusion and protected from the influence of strong winds. Serious interference is created, however, by microseisms of the first kind. These microseisms occur due to the proximity of the site to the sea shore and the passage of frequent low-pressure areas. About 30% of all seismograms have a considerable microseismic background, and in certain cases the microseismic background is so severe that

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20394 s/169/61/000/007/012/104 A006/A101

3,5000

AUTHOR:

Sytinskiy, A.D.

TITLE:

Microseisms at Mirnyy and their connection with hydrometeorological

conditions

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 7, 1961, 11, abstract 7A114 (V sb. "Seysm. issled. no. 4", Moscow, AN SSSR, 1960, 116 - 132, Eng-

lish summary)

From June 1956 regular seismic observation with the aid of Kirnos devices were started at Mirnyy. These devices possess an almost constant magnification within a 0.2 - 9 sec range of seismic wave periods; this is quite convenient for recording microseisms. An analysis of microseismic records consisted in the measuring of amplitudes and periods for 4 periods during a day. In the case of heavy microseismic storms the directions on the microseismic sources were determined from Raleigh waves. Microseisms with 2 to 10 sec periods are observed at Mirnyy; during the summer shorter periods prevail. The independence of intensity on seasonal changes of the ice cover around the Antarctic is a characteristic feature of long-period (winter) microseisms. They are most intensive

Card 1/2

S/169/62/000/005/005/093 D228/D307

AUTHOR:

Sytinskiy, A. D.

TITLE:

The relation of geotectonics to solar activity

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 5, 1962, 14, abstract 5A100 (Inform. byul. Sov. antarkt. ekspedit-

sii, no. 28, 1961, 5-10)

TEXT: The relation of the yearly distribution of the amount of seismic energy, evolved in strong earthquakes (M > 7), to the course of the solar activity indices is considered, and it is established that the greatest quantity of energy occurs in the years of the maxima and the minima (with a one-year displacement) of the 11-year solar activity cycle. The dates of catastrophic planetary earthquakes also fall in the same years. Proceeding from the fact that the prevailing seismic energy value is distinguished in these strongest earthquakes (M>8), a direct relation between these phenomena is proposed in accordance with the school color activity nomena is proposed in accordance with the scheme: solar activity -- change in the angular rate of the earth's rotation -- change in

Card 1/2

S/169/62/000/005/005/093 D228/D307

The relation of ...

plete translation. 7

racter of the solar activity's influence on the angular rate of the earth's rotation is reckoned to be as yet unestablished. It is possible that this process is related to the interaction of the earth's magnetic fields with wave and corpuscular solar-radiation flows. The total quantity of energy, evolved in connexion with the seasonal change in the rate of the earth's rotation, amounts to 1.27 x 10<sup>27</sup> ergs for the crust; it approximately corresponds to the total annual magnitude of the liberated energy of shallow earthquakes. The annual trend of the energy of earthquakes with a normal focal depth anticipates that of the seismic energy of intermediate and deep earthquakes by one month. In the author's opinion this circumstance, and also the excess of normal earthquake energies over those of intermediate and deep ones, is due to the fact that the genesis of earthquakes is connected with sources lying beyond the earth. 16 references. / Abstracter's note: Com-

the earth's figure -- intensification of solar activity. The cha-

Card 2/2

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s/169/62/000/006/065/093 D228/D304

AUTHOR:

Sytinskiy, A. D.

TITIE:

Question of using microseisms in weather forecasting

at Mirnyy

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 6, 1962, 40, abstract 6B266 (Inform. byul. Sov. antarkt. ekspeditsii,

no. 29, 1961, 33-38)

TEXT: Microseisms are understood to be surface Rayleigh- and Lovetype waves, arising in the crust as a result of sea and ocean gales and spreading at a velocity of ~3 km/sec. Microseismic vibrations exist continuously; their amplitudes A and periods T vary in time. For Mirnyy microseisms with T & 5 sec and 2A < 1 A represent the normal background to scattered sources. When 2A > 1 A, it is possible to speak of a seismic storm or so-called gale microseisms. Microseismic storms appear whenever cyclones pass, or the wind speed increases, in the ocean at a sufficiently close distance to the coast. The larger the amplitude of microseisms, the closer, the deeper

Card 1/2

Question of using ...

\$/169/62/000/006/065/093 D228/D304

and the more intense the cyclones. Short-period microseisms (T  $\approx$  2.-5 sec) reflect the state of the weather and the swell in a narrow constal region and are generated only within mainland shallows. Long-period microseisms (T  $\approx$  5 - 10 sec), being generated beyond mainland shallows or at their edges, depend on the state of the weather over extensive ocean regions. A number of synoptic charts, illustrating the location of cyclones in comparison with the data about microseisms according to observations at Mirnyy, are given. It is noted that the cited regularities doe not completely settle the question of the relation of microseisms to the weather.  $\angle$  Abstracter's note: Complete translation.  $\angle$ 

Cará 2/2

s/203/63/003/001

AUTHOR:

Sytinskiy,

TITLE:

Contemporary tectonic movements as one of the manifestations of the solar activity

PERIODICAL: Geomagnetizm i aeronomiya, v. 3, no. 1, 1963, 148 - 156

The attempt is made to explain some geotectonic movements by both internal and external causes. The study is restricted to the causes of the variations of the angular velocity of the Earth. The relationship between solar activity and angular velocity is indicated: the angular velocity decreases as the solar activity increases. In a study of seismic data and data of the solar activity over the past sixty years, a relationship is found between an eleven-year seismic activity and the cycles of solar activity. The seismic activity increases during the extremes of the eleven-year solar cycle. Most of the strong earthquakes take place two to three days after the passage of sunspots through the central solar meridian. Whenever there occur earthquakes being thus

Card 1/2

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Contemp	orary tecto	nic movements	,,,		•
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produce	d by sunspo	lectromagnetic cond	ditions in the circum	aterrestrial space. ~	
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VORONOV, P.S.; GAKKEL', Ya.Ya.; SYTINSKIY, A.D.

Possible effect of the earth's rotation forces on the morphological structure of the Arctic and the Antarctic. Probl. Arkt.

i Antarkt. no.10:17-26 '62.

(Earth—Rotation) (Arctic regions—Geomorphology)

(Antarctic regions—Geomorphology)

SYTINSKIY, A.D.; CHUKANIN, K.I. Atmospheric circulation in the northern Atlantic and microseisms

in Pulkovo. Izv. AN SSSR. Ser. geofiz. no.8:1238-1239 Ag '63. (MIRA 16:9) 1. Arkticheskiy i antarkticheskiy nauchno-issledovatel skiy institut.
Predstavleno chlenom redaktsionnoy kollegii Izvestiy AN SSSR, Seriya geofizicheskaya, Ye.F.Savarenskim.

(Pulkovo-Seismometry) (Atlantic Ocean-Atmosphere)

SYTINSKIY, A.D., mladshiy nauchnyy sotrudnik

Supposed seismicity of the earth and the zone south of 40°S in the period of the International Year of Quiet Sun. Inform.biul.Sov.antark. (MIRA 17:1) eksp. no.42:33-35 '63.

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut.

SYTINGKIY, A.D., mladshiy neuchoyy sotrudnik

of the Southern and Northern Hemispheres and their cause. Inform. biul, Sevantark, eksp. no.44:22-27 163. (MIRA 17:4)

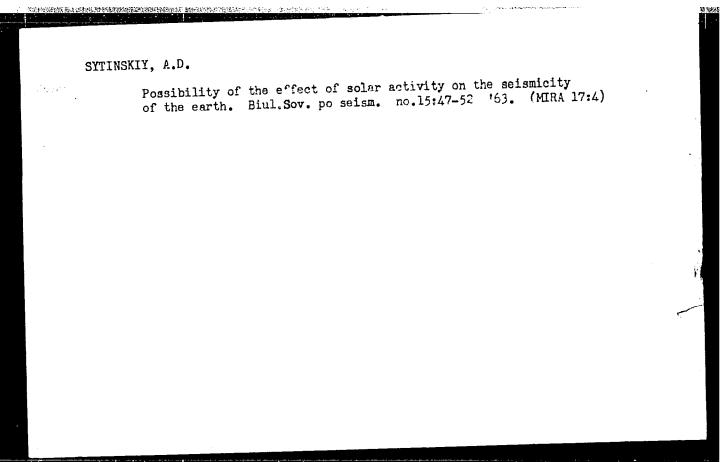
To arktitheskly i entarkticheskly nauchro-issledovatel'skly institut.

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SYTINSKIY, A.D.

Recent tectonic movements as one of the manifestations of solar activity. Geomag. i aer. 3 no.1:148-156 Ja-F 163. (MIRA 16:4)

l. Arkticheskiy i antarkticheskiy nauchno-issledovatel skiy institut. (Sun) (Geology, Structural)



SYTINSKIY, A. D.; TRIPOL'NIKOV, V. P.

Some results of studies on the natural vibrations of the ice fields of central Antarctica. Izv. AN SSSR, Ser, geofiz. no. 4: 615-621 Ap '64. (MIRA 17:5)

1. Arkticheskiy i antarkticheskiy nauchno-issledovateliskiy institut.

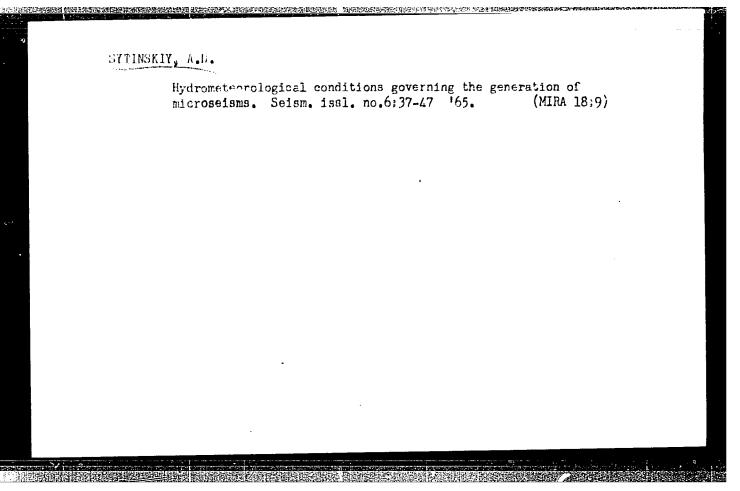
(MIRA 17:4)

SYTINSKIY, A.D. Atmospheric processes as a mechanism of the effect of solar activity on tectonic phenomena. Dokl. AN SSSR 155 no.1:79-81

1. Predstavleno akademikom D.I.Sheherbakovym.

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GUDKOVICH, Z.M.; SYTINSKIY, A.D.

Some results of observations on tidal phenomena in the Arctic basin by means of tiltmeters. Okeanologiia 5 no.5:819-824 165.

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l. Arkticheskiy i antarktichesky nauchno-issledovatel skiy institut.

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L 40018-66 EWT(1) GW  ACC NR: AP6005990 (N) SOURCE CODE: UR/0213/65/005/005/  AUTHOR: Gudkovich, Z. M.; Sytinskiy, A. D.  ORG: Arctic and Antarctic Scientific Research Institute (rkticheskiy i a kiy nauchno-issledovatel'skiy institut)  kiy nauchno-issledovatel'skiy institut)  TITLE: Some results of the observations of tide phenomena in the Arctic tiltmeters  SOURCE: Okeanologiya, v. 5, no. 5, 1965, 819-824  TOPIC TAGS: ocean dynamics, ocean tide, sea ice, angle measurement institute (and the company of the comp	O819/0824  34  Basin using  rument t North Pole-10 lescribed by
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ORG: Arctic and Antarctic Scientific Research Institute (Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut)  antarkticheskiy nauchno-issledovatel'skiy institut)  TITLE: Mechanism of influence of solar activity on the atmosphere and lithosphere	
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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001654320011-8"

过过去,我们的一个人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们就是一个人的人,我们们就是一个人的人,我们们也是一个人的人,我们就是一个人的

LYONG TAN CHYONG; NGUYEN KHYU CHAN'; LYONG TAN TKHAN'; NGUYEN TKHI TKHIN'; SYTINSKIY, I.A.

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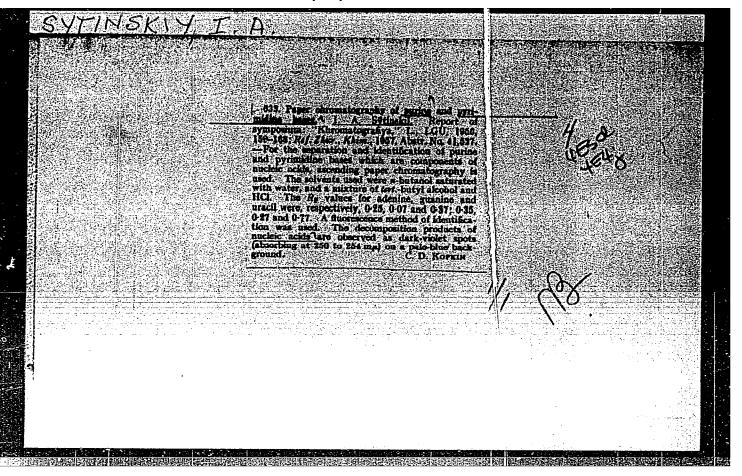
1. Khanoyskiy universitet, Institut radiologii i Bol'nitsa Bak-May Demokraticheskoy Respubliki V'yetnam i Leningradskiy gosudarstvennyy universitet.

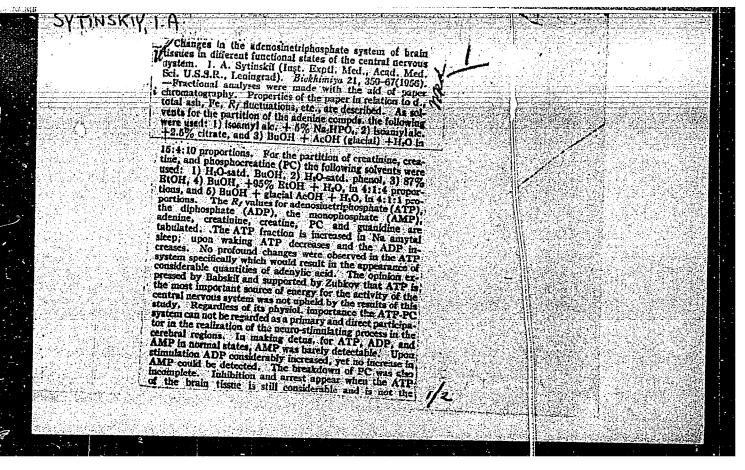
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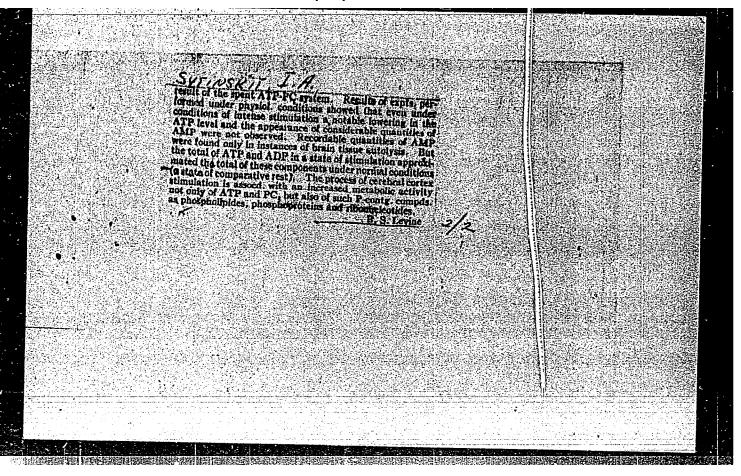
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Predstavleno akademikom V.N.Chernigovskim.

(Butyric acid) (Electrophysiology) (Nervous system—Insects)

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